

Amendments to the Specification

Please replace the paragraph [0035] with the following replacement paragraph:

[0035] In the kit, the bioactive primers are made by reacting DNA labeling reagent with the primers. The DNA labeling reagent is one reagent labeling DNA. While not limiting the scope of the present invention, the preferred reagent is the compound having the formula:



wherein Fu represents a furocoumarin derivative selected from the group consisting of angelicin derivatives and psoralen derivatives; wherein BE represents none or a binding enhancer selected from the group consisting of C4-12 alkyl, alkyenyl, polyalkylamine and polyethylene glycol; and wherein D represents a detectable group selected from the group consisting of: biotin, fluorescence, acridinium ester and acridinium-9-carboxamide. The most preferred DNA labeling reagent is ~~9-(4''-(Aminomethyl)-4',5''-Dimethyl-angelicin) acridinium-carboxamide~~9-(4-aminomethyl-4, 5'-dimethylangelicin) acridinium carboxamide.